

# FCC TEST REPORT

**FCC ID: 2BM3A-C1545**

**Report No.** : SSP24110188-2E

**Applicant** : Shenzhen SED Initta Technology Co., Ltd.

**Product Name** : Self-service terminal

**Model Name** : C1545

**Test Standard** : FCC Part 15.247

**Date of Issue** : 2024-12-25



**Shenzhen CCUT Quality Technology Co., Ltd.**

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Guangdong, China; (Tel.:+86-755-23406590 website: [www.ccuttest.com](http://www.ccuttest.com))

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

**Test Report Basic Information**

|                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b> .....:                                                                                                                                                                                                                                                                    | Shenzhen SED Initta Technology Co., Ltd.<br>401, SED Technology Building, No.1 Science and Tech nology Road, Science<br>and Technology Park Community, Yuehai Street, Nanshan District, Shenzhen,<br>Address of Applicant.....: China    |
| <b>Manufacturer</b> .....:                                                                                                                                                                                                                                                                 | Shenzhen SED Initta Technology Co., Ltd.<br>401, SED Technology Building, No.1 Science and Tech nology Road, Science<br>and Technology Park Community, Yuehai Street, Nanshan District, Shenzhen,<br>Address of Manufacturer.....: China |
| <b>Product Name</b> .....:                                                                                                                                                                                                                                                                 | Self-service terminal                                                                                                                                                                                                                    |
| <b>Brand Name</b> .....:                                                                                                                                                                                                                                                                   | -                                                                                                                                                                                                                                        |
| <b>Main Model</b> .....:                                                                                                                                                                                                                                                                   | C1545                                                                                                                                                                                                                                    |
| <b>Series Models</b> .....:                                                                                                                                                                                                                                                                | See section 1.1 (Page 5)                                                                                                                                                                                                                 |
| <b>Test Standard</b> .....:                                                                                                                                                                                                                                                                | FCC Part 15 Subpart C<br>KDB 558074 D01 15.247 Meas Guidance v05r02<br>ANSI C63.4-2014<br>ANSI C63.10-2013                                                                                                                               |
| <b>Date of Test</b> .....                                                                                                                                                                                                                                                                  | 2024-11-14 to 2024-12-25                                                                                                                                                                                                                 |
| <b>Test Result</b> .....:                                                                                                                                                                                                                                                                  | PASS                                                                                                                                                                                                                                     |
| <b>Tested By</b> .....                                                                                                                                                                                                                                                                     | <u>Coke Huang</u> (Coke Huang)                                                                                                                                                                                                           |
| <b>Reviewed By</b> .....:                                                                                                                                                                                                                                                                  | <u>Lieber Ouyang</u> (Lieber Ouyang)                                                                                                                                                                                                     |
| <b>Authorized Signatory</b> .....:                                                                                                                                                                                                                                                         | <u>Lahm Peng</u> (Lahm Peng)                                                                                                                                                                                                             |
| <b>Note :</b> This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample. |                                                                                                                                                                                                                                          |



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Revision History

| Revision | Issue Date | Description     | Revised By |
|----------|------------|-----------------|------------|
| V1.0     | 2024-12-25 | Initial Release | Lahm Peng  |
|          |            |                 |            |
|          |            |                 |            |
|          |            |                 |            |
|          |            |                 |            |

# 1. General Information

## 1.1 Product Information

|                                                                                                                                                                                       |                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                                                                                                                                                                         | Self-service terminal                                                                                                                                              |
| Trade Name:                                                                                                                                                                           | -                                                                                                                                                                  |
| Main Model:                                                                                                                                                                           | C1545                                                                                                                                                              |
| Series Models:                                                                                                                                                                        | C1540, C1556, C2156, C2456, C2756, C3256, LR1556, LR2156, LR2456, LR2756, LR3256, PC1026, PC1526, PC2226, PC2726, PC3226, I1056, I1556, I2256, I3256, I4356, I5556 |
| Rated Voltage:                                                                                                                                                                        | DC 12V by adapter                                                                                                                                                  |
| Power Adapter:                                                                                                                                                                        | INPUT: 100-240V~50/60Hz, 1.5A, OUTPUT:12V=7A, 84W                                                                                                                  |
| Test Sample No:                                                                                                                                                                       | SSP24110118-1                                                                                                                                                      |
| Hardware Version:                                                                                                                                                                     | V1.0                                                                                                                                                               |
| Software Version:                                                                                                                                                                     | V1.0                                                                                                                                                               |
| Note 1: The test data is gathered from a production sample, provided by the manufacturer.                                                                                             |                                                                                                                                                                    |
| Note 2: The model name of the listed series of models is different from the main model, but the circuit and electronic structure are the same, which is declared by the manufacturer. |                                                                                                                                                                    |

| Wireless Specification                      |                                                                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Wireless Standard:                          | 802.11b/g/n                                                                                                                        |
| Operating Frequency:                        | 2412MHz ~ 2462MHz for 802.11b/g/n(HT20)<br>2422MHz ~ 2452MHz for 802.11n(HT40)                                                     |
| RF Output Power:                            | 7.26dBm                                                                                                                            |
| Number of Channel:                          | 11/7                                                                                                                               |
| Channel Separation:                         | 5MHz                                                                                                                               |
| Modulation:                                 | CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM                                                                                                |
| Antenna Gain:                               | 1.5dBi                                                                                                                             |
| Type of Antenna:                            | ROD Antenna                                                                                                                        |
| Type of Device:                             | <input checked="" type="checkbox"/> Portable Device <input type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device |
| Note: The EUT incorporates a MIMO function. |                                                                                                                                    |

## 1.2 Test Setup Information

| List of Test Modes                      |              |                         |                      |
|-----------------------------------------|--------------|-------------------------|----------------------|
| Test Mode                               | Description  | Remark                  |                      |
| TM1                                     | 802.11b      | 2412MHz/2437MHz/2462MHz |                      |
| TM2                                     | 802.11g      | 2412MHz/2437MHz/2462MHz |                      |
| TM3                                     | 802.11n(H20) | 2412MHz/2437MHz/2462MHz |                      |
| TM4                                     | 802.11n(H40) | 2422MHz/2437MHz/2452MHz |                      |
| List and Details of Auxiliary Cable     |              |                         |                      |
| Description                             | Length (cm)  | Shielded/Unshielded     | With/Without Ferrite |
| -                                       | -            | -                       | -                    |
| -                                       | -            | -                       | -                    |
| List and Details of Auxiliary Equipment |              |                         |                      |
| Description                             | Manufacturer | Model                   | Serial Number        |
| -                                       | -            | -                       | -                    |
| -                                       | -            | -                       | -                    |

| List of Channels |                 |                |                 |                |                 |                |                 |
|------------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| No. of Channel   | Frequency (MHz) | No. of Channel | Frequency (MHz) | No. of Channel | Frequency (MHz) | No. of Channel | Frequency (MHz) |
| 01               | 2412            | 05             | 2432            | 09             | 2452            | 13             | --              |
| 02               | 2417            | 06             | 2437            | 10             | 2457            | 14             | --              |
| 03               | 2422            | 07             | 2442            | 11             | 2462            | 15             | --              |
| 04               | 2427            | 08             | 2447            | 12             | --              | 16             | --              |

### 1.3 Compliance Standards

| Compliance Standards                                                                                                                                                                                                  |                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC Part 15 Subpart C                                                                                                                                                                                                 | FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators                                                                                                        |
| All measurements contained in this report were conducted with all above standards                                                                                                                                     |                                                                                                                                                                                          |
| According to standards for test methodology                                                                                                                                                                           |                                                                                                                                                                                          |
| FCC Part 15 Subpart C                                                                                                                                                                                                 | FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators                                                                                                        |
| KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                            | GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES |
| ANSI C63.4-2014                                                                                                                                                                                                       | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.                     |
| ANSI C63.10-2013                                                                                                                                                                                                      | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices                                                                                           |
| Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained. |                                                                                                                                                                                          |

### 1.4 Test Facilities

|                                                                                                                                                                                                      |                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laboratory Name:                                                                                                                                                                                     | <b>Shenzhen CCUT Quality Technology Co., Ltd.</b><br>1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China |
| CNAS Laboratory No.:                                                                                                                                                                                 | L18863                                                                                                                                                                    |
| A2LA Certificate No.:                                                                                                                                                                                | 6893.01                                                                                                                                                                   |
| FCC Registration No.:                                                                                                                                                                                | 583813                                                                                                                                                                    |
| ISED Registration No.:                                                                                                                                                                               | CN0164                                                                                                                                                                    |
| All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China. |                                                                                                                                                                           |

## 1.5 List of Measurement Instruments

| Description                 | Manufacturer  | Model              | Serial Number | Cal. Date  | Due. Date  |
|-----------------------------|---------------|--------------------|---------------|------------|------------|
| <b>Conducted Emissions</b>  |               |                    |               |            |            |
| AMN                         | ROHDE&SCHWARZ | ENV216             | 101097        | 2024-08-07 | 2025-08-06 |
| EMI Test Receiver           | ROHDE&SCHWARZ | ESPI               | 100242        | 2024-08-07 | 2025-08-06 |
| Test Cable                  | N/A           | Cable 5            | N/A           | 2024-08-07 | 2025-08-06 |
| EMI Test Software           | FARA          | EZ-EMC             | EMEC-3A1+     | N/A        | N/A        |
| <b>Radiated Emissions</b>   |               |                    |               |            |            |
| EMI Test Receiver           | ROHDE&SCHWARZ | ESPI               | 100154        | 2024-08-07 | 2025-08-06 |
| Spectrum Analyzer           | KEYSIGHT      | N9020A             | MY48030972    | 2024-08-07 | 2025-08-06 |
| Spectrum Analyzer           | ROHDE&SCHWARZ | FSV40-N            | 101692        | 2024-08-07 | 2025-08-06 |
| Amplifier                   | SCHWARZBECK   | BBV 9743B          | 00251         | 2024-08-07 | 2025-08-06 |
| Amplifier                   | HUABO         | YXL0518-2.5-45     | --            | 2024-08-07 | 2025-08-06 |
| Amplifier                   | COM-MW        | DLAN-18G-4G-02     | 10229104      | 2024-08-07 | 2025-08-06 |
| Loop Antenna                | DAZE          | ZN30900C           | 21104         | 2024-08-03 | 2025-08-02 |
| Broadband Antenna           | SCHWARZBECK   | VULB 9168          | 01320         | 2024-08-03 | 2025-08-02 |
| Horn Antenna                | SCHWARZBECK   | BBHA 9120D         | 02553         | 2024-08-03 | 2025-08-02 |
| Horn Antenna                | COM-MW        | ZLB7-18-40G-950    | 12221225      | 2024-08-03 | 2025-08-02 |
| Attenuator                  | QUANJUDA      | 6dB                | 220731        | 2024-08-07 | 2025-08-06 |
| Test Cable                  | N/A           | Cable 1            | N/A           | 2024-08-07 | 2025-08-06 |
| Test Cable                  | N/A           | Cable 2            | N/A           | 2024-08-07 | 2025-08-06 |
| Test Cable                  | N/A           | Cable 3            | N/A           | 2024-08-07 | 2025-08-06 |
| Test Cable                  | N/A           | Cable 4            | N/A           | 2024-08-07 | 2025-08-06 |
| Test Cable                  | N/A           | Cable 8            | N/A           | 2024-08-07 | 2025-08-06 |
| Test Cable                  | N/A           | Cable 9            | N/A           | 2024-08-07 | 2025-08-06 |
| EMI Test Software           | FARA          | EZ-EMC             | FA-03A2 RE+   | N/A        | N/A        |
| <b>Conducted RF Testing</b> |               |                    |               |            |            |
| RF Test System              | MWRFTTest     | MW100-RFCB         | 220418SQS-37  | 2024-08-07 | 2025-08-06 |
| Spectrum Analyzer           | KEYSIGHT      | N9020A             | ATO-90521     | 2024-08-07 | 2025-08-06 |
| RF Test Software            | MWRFTTest     | MTS 8310           | N/A           | N/A        | N/A        |
| Laptop                      | Lenovo        | ThinkPad E15 Gen 3 | SPPOZ22485    | N/A        | N/A        |



## 1.6 Measurement Uncertainty

| Test Item                   | Conditions    | Uncertainty |
|-----------------------------|---------------|-------------|
| Conducted Emissions         | 9kHz ~ 30MHz  | ±1.64 dB    |
| Radiated Emissions          | 9kHz ~ 30MHz  | ±2.88 dB    |
|                             | 30MHz ~ 1GHz  | ±3.32 dB    |
|                             | 1GHz ~ 18GHz  | ±3.50 dB    |
|                             | 18GHz ~ 40GHz | ±3.66 dB    |
| Conducted Output Power      | 9kHz ~ 26GHz  | ±0.50 dB    |
| Occupied Bandwidth          | 9kHz ~ 26GHz  | ±4.0 %      |
| Conducted Spurious Emission | 9kHz ~ 26GHz  | ±1.32 dB    |
| Power Spectrum Density      | 9kHz ~ 26GHz  | ±0.62 dB    |

## 2. Summary of Test Results

| FCC Rule                                                                                                                                                                           | Description of Test Item                | Result |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------|
| FCC Part 15.203                                                                                                                                                                    | Antenna Requirement                     | Passed |
| FCC Part 15.247(i)                                                                                                                                                                 | RF Exposure(see the RF exposure report) | Passed |
| FCC Part 15.207                                                                                                                                                                    | Conducted Emissions                     | Passed |
| FCC Part 15.209, 15.247(d)                                                                                                                                                         | Radiated Emissions                      | Passed |
| FCC Part 15.247(d)                                                                                                                                                                 | Band-edge Emissions(Radiated)           | Passed |
| FCC Part 15.247(b)(3)                                                                                                                                                              | Maximum Conducted Output Power          | Passed |
| FCC Part 15.247(a)(2)                                                                                                                                                              | Occupied Bandwidth                      | Passed |
| FCC Part 15.247(e)                                                                                                                                                                 | Maximum Power Spectral Density          | Passed |
| FCC Part 15.247(d)                                                                                                                                                                 | Band-edge Emissions(Conducted)          | Passed |
| FCC Part 15.247(d)                                                                                                                                                                 | Conducted RF Spurious Emissions         | Passed |
| Passed: The EUT complies with the essential requirements in the standard<br>Failed: The EUT does not comply with the essential requirements in the standard<br>N/A: Not applicable |                                         |        |

### **3. Antenna Requirement**

---

#### **3.1 Standard and Limit**

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **3.2 Test Result**

This product comes with two ROD antennas, which meet the requirements of this section.

## 4. Conducted Emissions

### 4.1 Standard and Limit

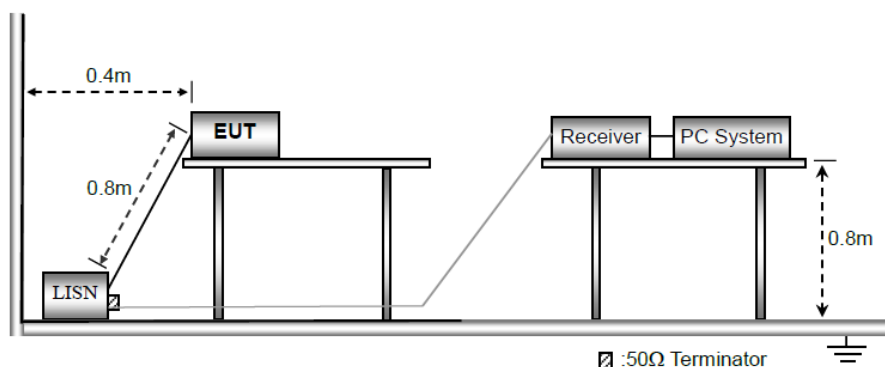
According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

| Frequency of Emission<br>(MHz) | Conducted emissions (dBuV) |          |
|--------------------------------|----------------------------|----------|
|                                | Quasi-peak                 | Average  |
| 0.15-0.5                       | 66 to 56                   | 56 to 46 |
| 0.5-5                          | 56                         | 46       |
| 5-30                           | 60                         | 50       |

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz  
 Note 2: The lower limit applies at the band edges

### 4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz

Stop Frequency: 30MHz

IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

### **4.3 Test Data and Results**

All of the modes have been tested, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

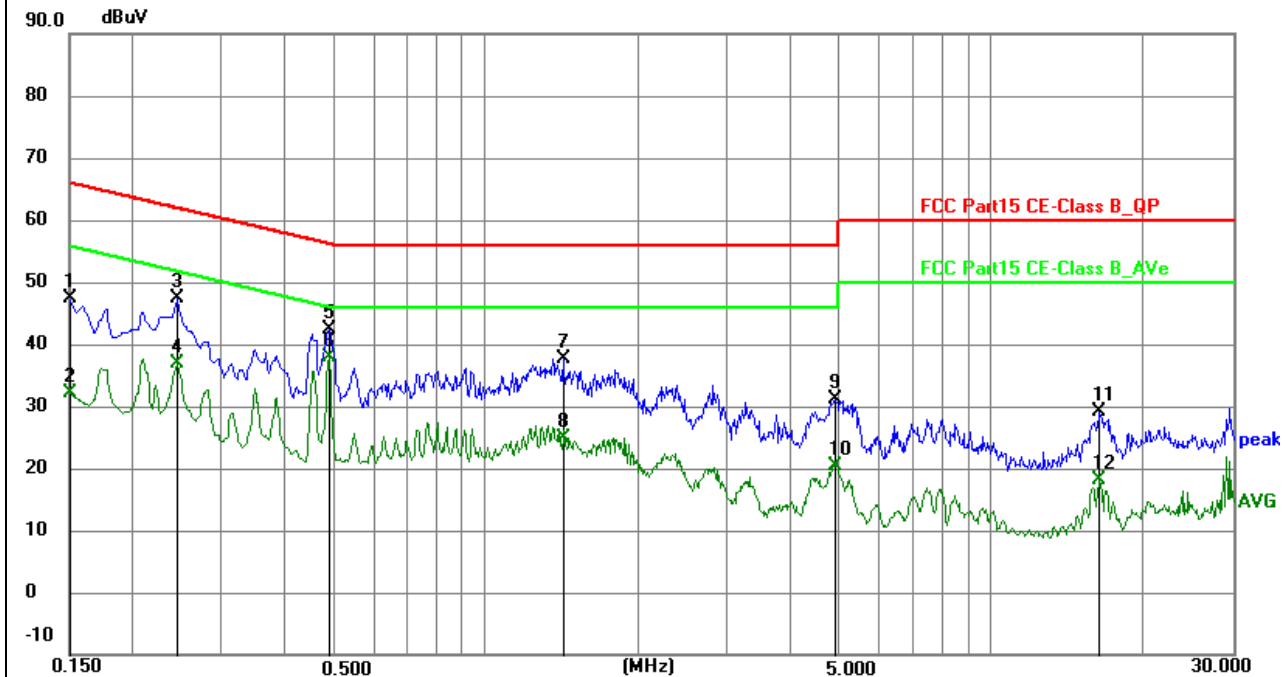
## Test Plots and Data of Conducted Emissions

Tested Mode: TM3

Test Voltage: AC 120V/60Hz

Test Power Line: Neutral

Remark:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.1500          | 38.21          | 9.25        | 47.46        | 66.00        | -18.54      | QP       | P   |        |
| 2   | 0.1500          | 22.94          | 9.25        | 32.19        | 56.00        | -23.81      | AVG      | P   |        |
| 3   | 0.2445          | 38.01          | 9.29        | 47.30        | 61.94        | -14.64      | QP       | P   |        |
| 4   | 0.2445          | 27.58          | 9.29        | 36.87        | 51.94        | -15.07      | AVG      | P   |        |
| 5   | 0.4875          | 33.03          | 9.39        | 42.42        | 56.21        | -13.79      | QP       | P   |        |
| 6 * | 0.4875          | 28.39          | 9.39        | 37.78        | 46.21        | -8.43       | AVG      | P   |        |
| 7   | 1.4235          | 28.26          | 9.44        | 37.70        | 56.00        | -18.30      | QP       | P   |        |
| 8   | 1.4235          | 15.45          | 9.44        | 24.89        | 46.00        | -21.11      | AVG      | P   |        |
| 9   | 4.9020          | 21.52          | 9.57        | 31.09        | 56.00        | -24.91      | QP       | P   |        |
| 10  | 4.9020          | 10.83          | 9.57        | 20.40        | 46.00        | -25.60      | AVG      | P   |        |
| 11  | 16.3275         | 19.60          | 9.65        | 29.25        | 60.00        | -30.75      | QP       | P   |        |
| 12  | 16.3275         | 8.48           | 9.65        | 18.13        | 50.00        | -31.87      | AVG      | P   |        |

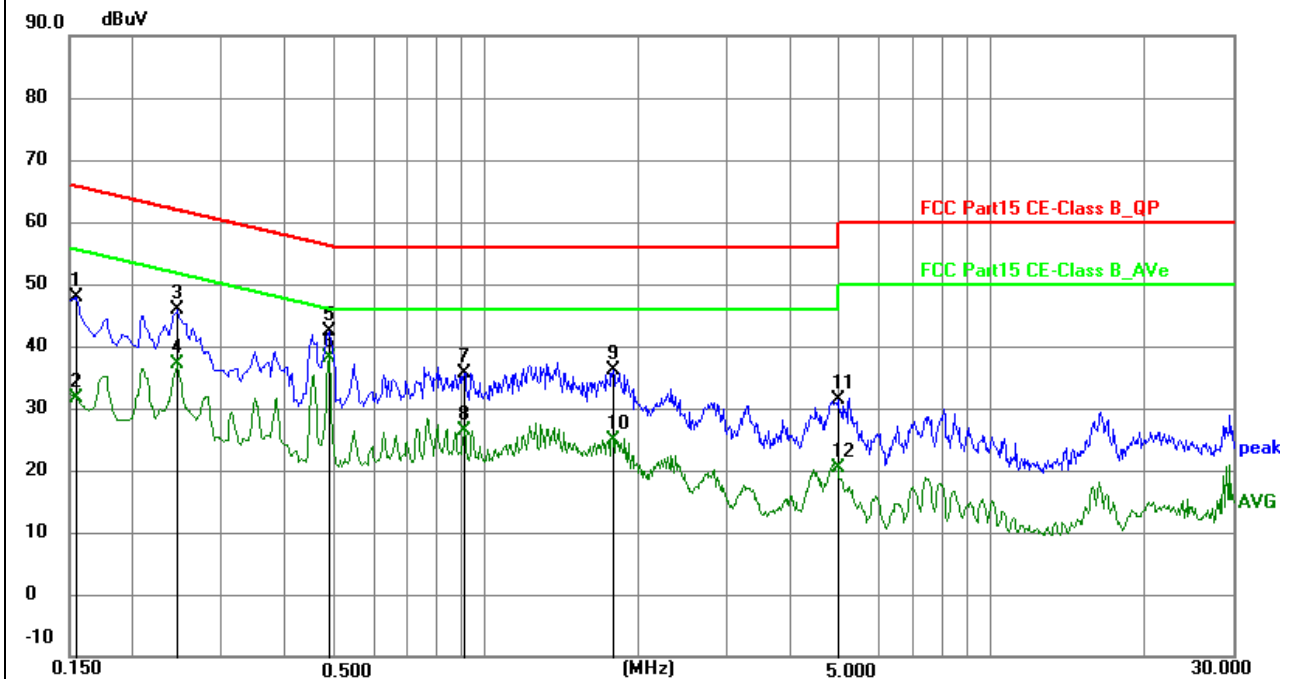
## Test Plots and Data of Conducted Emissions

Tested Mode: TM3

Test Voltage: AC 120V/60Hz

Test Power Line: Live

Remark:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.1545          | 38.50          | 9.41        | 47.91        | 65.75        | -17.84      | QP       | P   |        |
| 2   | 0.1545          | 22.31          | 9.41        | 31.72        | 55.75        | -24.03      | AVG      | P   |        |
| 3   | 0.2445          | 36.33          | 9.48        | 45.81        | 61.94        | -16.13      | QP       | P   |        |
| 4   | 0.2445          | 27.61          | 9.48        | 37.09        | 51.94        | -14.85      | AVG      | P   |        |
| 5   | 0.4875          | 32.90          | 9.58        | 42.48        | 56.21        | -13.73      | QP       | P   |        |
| 6 * | 0.4875          | 28.51          | 9.58        | 38.09        | 46.21        | -8.12       | AVG      | P   |        |
| 7   | 0.9060          | 26.12          | 9.56        | 35.68        | 56.00        | -20.32      | QP       | P   |        |
| 8   | 0.9060          | 16.71          | 9.56        | 26.27        | 46.00        | -19.73      | AVG      | P   |        |
| 9   | 1.7835          | 26.44          | 9.65        | 36.09        | 56.00        | -19.91      | QP       | P   |        |
| 10  | 1.7835          | 15.35          | 9.65        | 25.00        | 46.00        | -21.00      | AVG      | P   |        |
| 11  | 4.9650          | 21.53          | 9.76        | 31.29        | 56.00        | -24.71      | QP       | P   |        |
| 12  | 4.9650          | 10.51          | 9.76        | 20.27        | 46.00        | -25.73      | AVG      | P   |        |

Note1: The test data shows only the worst case ANT. 1 and ANT. 2 Simultaneous emission mode.

## 5. Radiated Emissions

### 5.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

| Frequency of Emission<br>(MHz)                                    | Field Strength<br>(micorvolts/meter) | Measurement Distance<br>(meters) |
|-------------------------------------------------------------------|--------------------------------------|----------------------------------|
| 0.009~0.490                                                       | 2400/F(kHz)                          | 300                              |
| 0.490~1.705                                                       | 24000/F(kHz)                         | 30                               |
| 1.705~30.0                                                        | 30                                   | 30                               |
| 30~88                                                             | 100                                  | 3                                |
| 88~216                                                            | 150                                  | 3                                |
| 216~960                                                           | 200                                  | 3                                |
| Above 960                                                         | 500                                  | 3                                |
| Note: The more stringent limit applies at transition frequencies. |                                      |                                  |

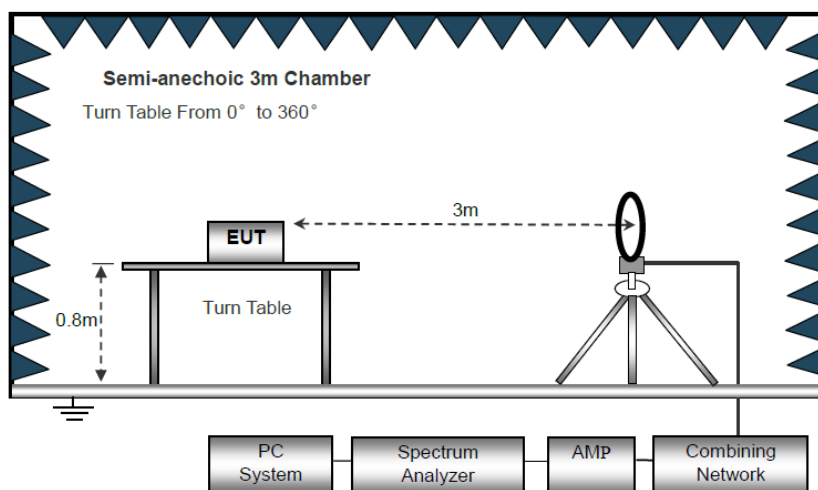
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

*Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.*

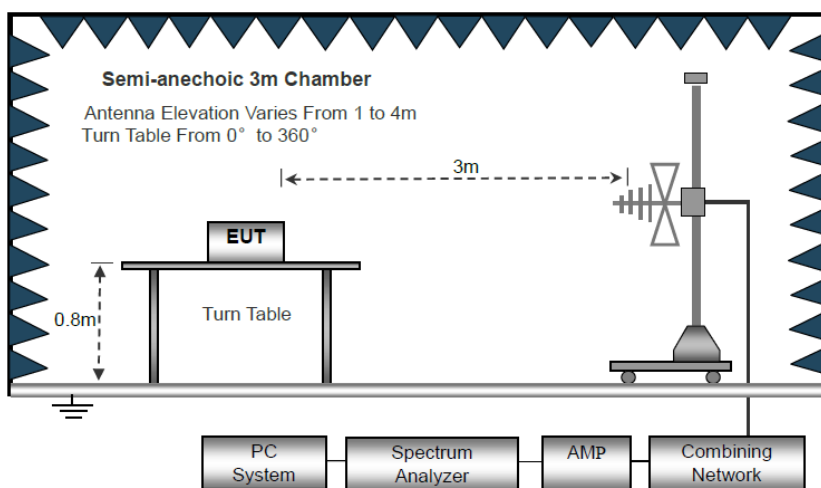
### 5.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.

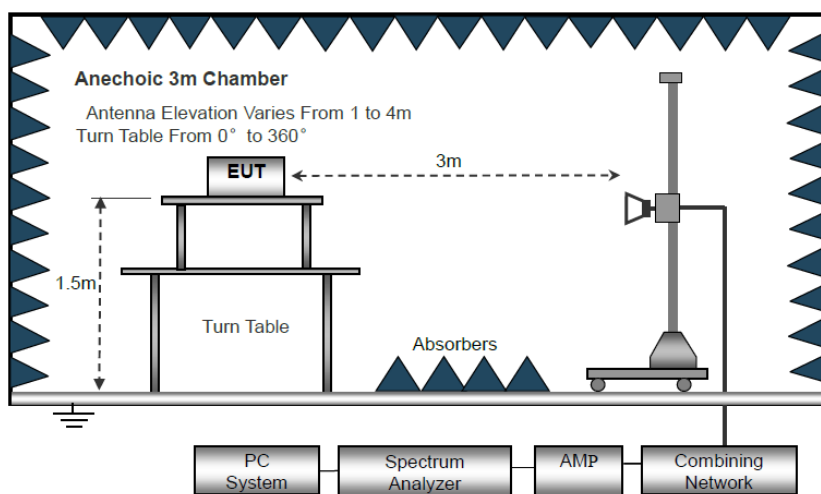




Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

- a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.
- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured  
RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{GHz}$ , 10kHz for  $f < 30\text{MHz}$   
VBW  $\geq$  RBW, Sweep = auto  
Detector function = peak  
Trace = max hold
- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.
- f) For the actual test configuration, please refer to the related item - EUT test photos.

### 5.3 Test Data and Results

All of the 802.11b, 802.11g and 802.11n modes have been tested, the EUT complied with the FCC Part 15.247 standard limit for a wireless device, and with the worst case 802.11n\_HT20\_2412MHz as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

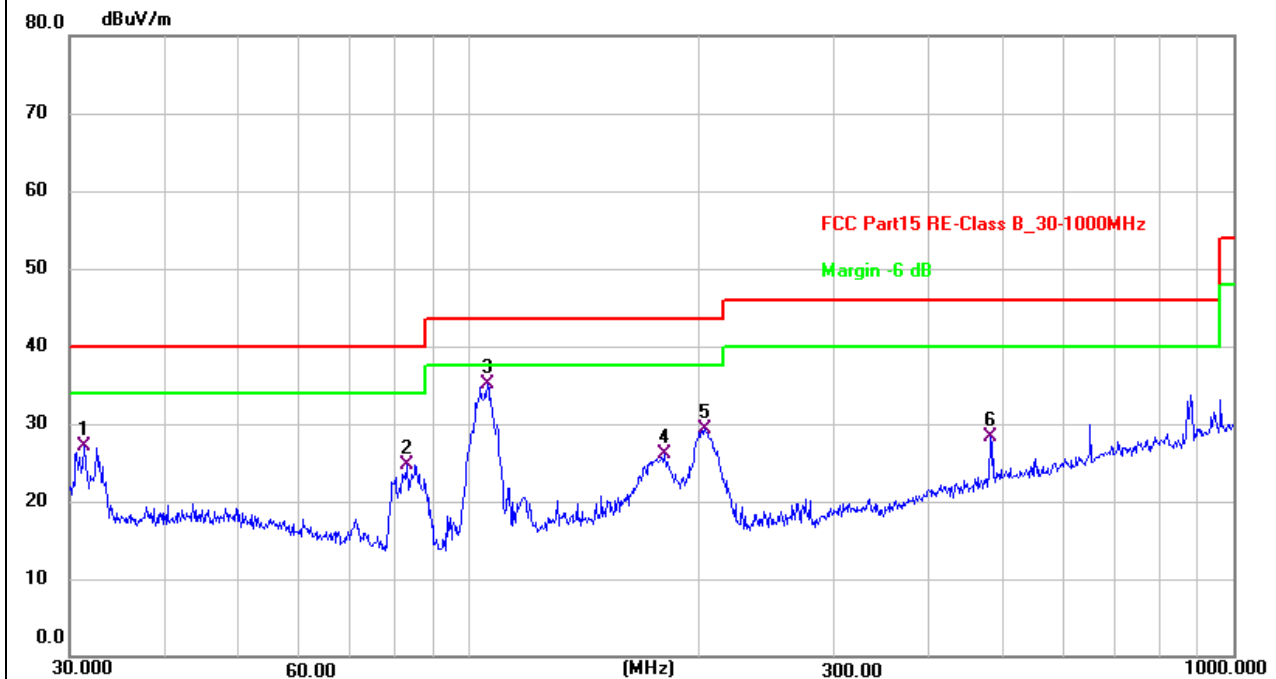
## Radiated Emission Test Data (30MHz to 1GHz)

Tested Mode: TM3

Test Voltage: AC 120V/60Hz

Test Antenna Polarization: Horizontal

Remark:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 31.3992         | 36.12          | -8.96         | 27.16          | 40.00          | -12.84      | QP       | 199         | 349            | P   |        |
| 2   | 82.9385         | 37.68          | -12.92        | 24.76          | 40.00          | -15.24      | QP       | 199         | 349            | P   |        |
| 3 * | 105.6415        | 46.64          | -11.48        | 35.16          | 43.50          | -8.34       | QP       | 199         | 349            | P   |        |
| 4   | 180.0165        | 36.57          | -10.55        | 26.02          | 43.50          | -17.48      | QP       | 199         | 349            | P   |        |
| 5   | 203.5228        | 41.26          | -12.00        | 29.26          | 43.50          | -14.24      | QP       | 199         | 144            | P   |        |
| 6   | 480.5276        | 32.14          | -3.76         | 28.38          | 46.00          | -17.62      | QP       | 100         | 276            | P   |        |

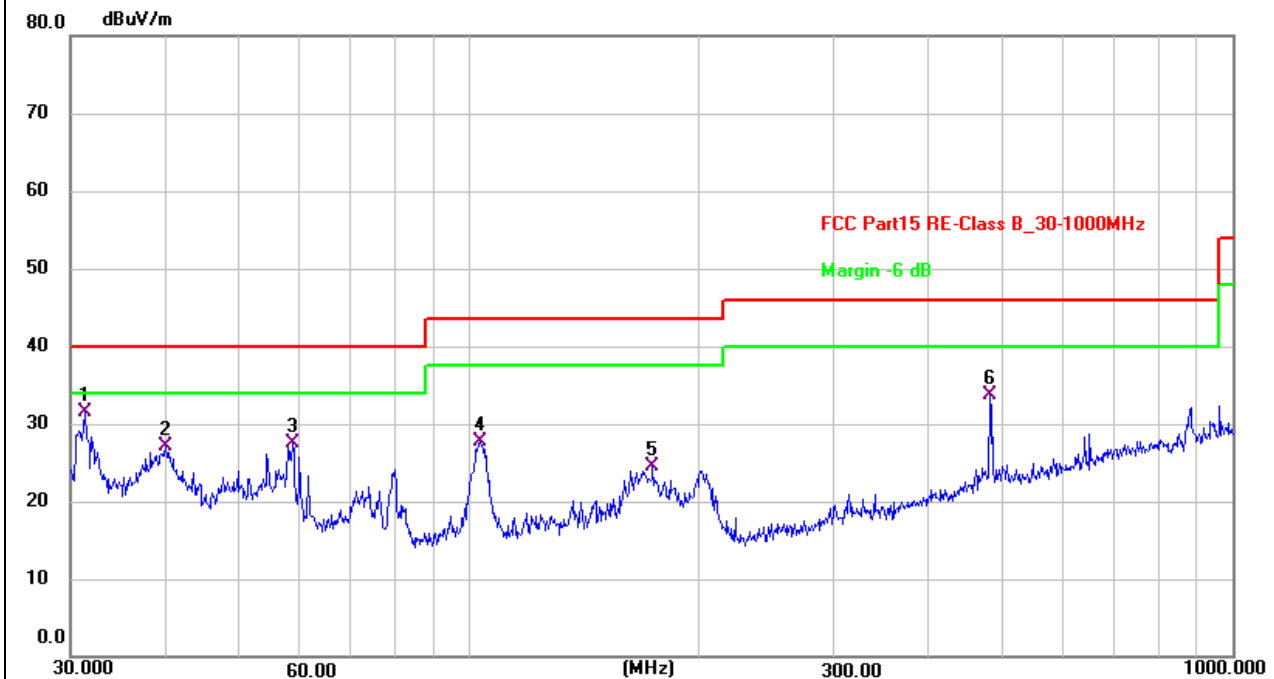
## Radiated Emission Test Data (30MHz to 1GHz)

Tested Mode: TM3

Test Voltage: AC 120V/60Hz

Test Antenna Polarization: Vertical

Remark:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 31.2893         | 40.49          | -8.95         | 31.54          | 40.00          | -8.46       | QP       | 100         | 4              | P   |        |
| 2   | 39.9942         | 35.32          | -8.31         | 27.01          | 40.00          | -12.99      | QP       | 100         | 1              | P   |        |
| 3   | 58.6126         | 37.21          | -9.74         | 27.47          | 40.00          | -12.53      | QP       | 100         | 155            | P   |        |
| 4   | 103.0800        | 39.52          | -11.82        | 27.70          | 43.50          | -15.80      | QP       | 100         | 348            | P   |        |
| 5   | 173.8135        | 34.02          | -9.45         | 24.57          | 43.50          | -18.93      | QP       | 100         | 348            | P   |        |
| 6   | 480.5276        | 37.40          | -3.76         | 33.64          | 46.00          | -12.36      | QP       | 100         | 293            | P   |        |

Note1: The test data shows only the worst case ANT. 1 and ANT. 2 Simultaneous emission mode.

| Radiated Emission Test Data (Above 1GHz) |         |         |        |        |        |       |          |
|------------------------------------------|---------|---------|--------|--------|--------|-------|----------|
| Frequency                                | Reading | Correct | Result | Limit  | Margin | Polar | Detector |
| MHz                                      | dBuV/m  | dB/m    | dBuV/m | dBuV/m | dB     | H/V   | PK/AV    |
| Lowest Channel (802.11n_HT20_2412MHz)    |         |         |        |        |        |       |          |
| 4824                                     | 77.53   | -14.72  | 62.81  | 74     | -11.19 | H     | PK       |
| 4824                                     | 61.88   | -14.72  | 47.16  | 54     | -6.84  | H     | AV       |
| 7236                                     | 63.87   | -8.41   | 55.46  | 74     | -18.54 | H     | PK       |
| 7236                                     | 46.27   | -8.41   | 37.86  | 54     | -16.14 | H     | AV       |
| 4824                                     | 75.81   | -14.72  | 61.09  | 74     | -12.91 | V     | PK       |
| 4824                                     | 57.73   | -14.72  | 43.01  | 54     | -10.99 | V     | AV       |
| 7236                                     | 63.28   | -8.41   | 54.87  | 74     | -19.13 | V     | PK       |
| 7236                                     | 50.32   | -8.41   | 41.91  | 54     | -12.09 | V     | AV       |
| Middle Channel (802.11n_HT20_2437MHz)    |         |         |        |        |        |       |          |
| 4874                                     | 76.48   | -14.64  | 61.84  | 74     | -12.16 | H     | PK       |
| 4874                                     | 61.21   | -14.64  | 46.57  | 54     | -7.43  | H     | AV       |
| 7311                                     | 63.48   | -8.28   | 55.2   | 74     | -18.8  | H     | PK       |
| 7311                                     | 46      | -8.28   | 37.72  | 54     | -16.28 | H     | AV       |
| 4874                                     | 77.89   | -14.64  | 63.25  | 74     | -10.75 | V     | PK       |
| 4874                                     | 60.15   | -14.64  | 45.51  | 54     | -8.49  | V     | AV       |
| 7311                                     | 65.21   | -8.28   | 56.93  | 74     | -17.07 | V     | PK       |
| 7311                                     | 50.8    | -8.28   | 42.52  | 54     | -11.48 | V     | AV       |
| Highest Channel (802.11n_HT20_2462MHz)   |         |         |        |        |        |       |          |
| 4924                                     | 79.39   | -14.53  | 64.86  | 74     | -9.14  | H     | PK       |
| 4924                                     | 60.29   | -14.53  | 45.76  | 54     | -8.24  | H     | AV       |
| 7386                                     | 63.01   | -8.13   | 54.88  | 74     | -19.12 | H     | PK       |
| 7386                                     | 47.26   | -8.13   | 39.13  | 54     | -14.87 | H     | AV       |
| 4924                                     | 73.51   | -14.53  | 58.98  | 74     | -15.02 | V     | PK       |
| 4924                                     | 59.49   | -14.53  | 44.96  | 54     | -9.04  | V     | AV       |
| 7386                                     | 62.39   | -8.13   | 54.26  | 74     | -19.74 | V     | PK       |
| 7386                                     | 50.34   | -8.13   | 42.21  | 54     | -11.79 | V     | AV       |

Note 1: This EUT was tested in 3 orthogonal positions and the worst case position data was reported. The test data shows ANT. 1 and ANT. 2 Simultaneous emission mode.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

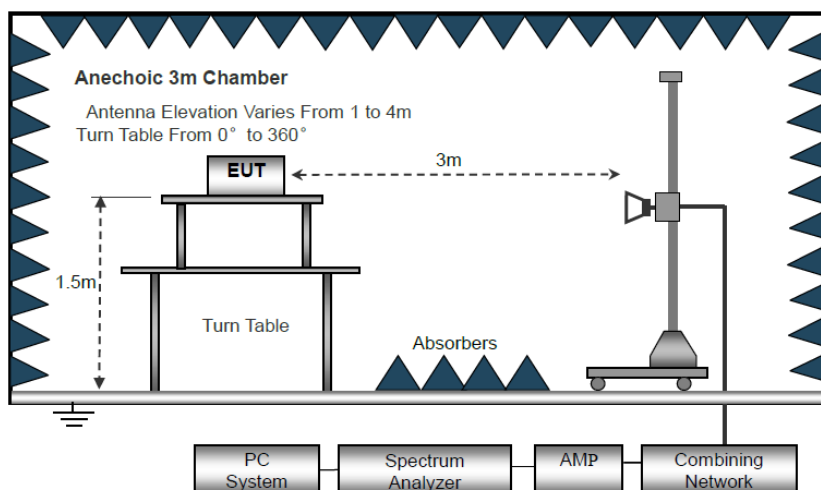
## 6. Band-edge Emissions(Radiated)

### 6.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### 6.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6 and section 6.10.



Test Setup Block Diagram

As the radiated emissions testing, set the Lowest and Highest Transmitting Channel, observed the outside band of 2310MHz to 2400MHz and 2483.5MHz to 2500MHz, than mark the higher-level emission for comparing with the FCC rules.

### 6.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.247 standard limit, and with the worst case as below:

| Test Mode | Frequency | Limit    | Result |
|-----------|-----------|----------|--------|
|           | MHz       | dBuV/dBc |        |
| Lowest    | 2310.00   | <54 dBuV | Pass   |
|           | 2390.00   | <54 dBuV | Pass   |
| Highest   | 2483.50   | <54 dBuV | Pass   |
|           | 2500.00   | <54 dBuV | Pass   |

| Radiated Emission Test Data (Band edge emissions) |         |         |        |        |        |       |          |
|---------------------------------------------------|---------|---------|--------|--------|--------|-------|----------|
| Frequency                                         | Reading | Correct | Result | Limit  | Margin | Polar | Detector |
| MHz                                               | dBuV/m  | dB/m    | dBuV/m | dBuV/m | dB     | H/V   | PK/AV    |
| Lowest Channel (802.11n_HT20_2412MHz)             |         |         |        |        |        |       |          |
| 2310                                              | 69.13   | -21.34  | 47.79  | 74     | -26.21 | H     | PK       |
| 2310                                              | 50.58   | -21.34  | 29.24  | 54     | -24.76 | H     | AV       |
| 2390                                              | 66.16   | -20.96  | 45.2   | 74     | -28.8  | H     | PK       |
| 2390                                              | 49.14   | -20.96  | 28.18  | 54     | -25.82 | H     | AV       |
| 2400                                              | 70.78   | -20.91  | 49.87  | 74     | -24.13 | H     | PK       |
| 2400                                              | 54.83   | -20.91  | 33.92  | 54     | -20.08 | H     | AV       |
| 2310                                              | 67.75   | -21.34  | 46.41  | 74     | -27.59 | V     | PK       |
| 2310                                              | 49.03   | -21.34  | 27.69  | 54     | -26.31 | V     | AV       |
| 2390                                              | 68.56   | -20.96  | 47.6   | 74     | -26.4  | V     | PK       |
| 2390                                              | 49.92   | -20.96  | 28.96  | 54     | -25.04 | V     | AV       |
| 2400                                              | 70.65   | -20.91  | 49.74  | 74     | -24.26 | V     | PK       |
| 2400                                              | 55.89   | -20.91  | 34.98  | 54     | -19.02 | V     | AV       |
| Highest Channel (802.11n_HT20_2462MHz)            |         |         |        |        |        |       |          |
| 2483.50                                           | 71.18   | -20.51  | 50.67  | 74     | -23.33 | H     | PK       |
| 2483.50                                           | 56.3    | -20.51  | 35.79  | 54     | -18.21 | H     | AV       |
| 2500                                              | 65.29   | -20.43  | 44.86  | 74     | -29.14 | H     | PK       |
| 2500                                              | 52.28   | -20.43  | 31.85  | 54     | -22.15 | H     | AV       |
| 2483.50                                           | 72.63   | -20.51  | 52.12  | 74     | -21.88 | V     | PK       |
| 2483.50                                           | 52.98   | -20.51  | 32.47  | 54     | -21.53 | V     | AV       |
| 2500                                              | 64.06   | -20.43  | 43.63  | 74     | -30.37 | V     | PK       |
| 2500                                              | 50.36   | -20.43  | 29.93  | 54     | -24.07 | V     | AV       |

Note 1: The test data shows ANT. 1 and ANT. 2 Simultaneous emission mode.

Remark: Level = Reading + Factor, Margin = Level - Limit

## 7. Maximum Conducted Output Power

### 7.1 Standard and Limit

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the *maximum conducted output power* is the highest total transmit power occurring in any mode.

### 7.2 Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- 1) A measurement instrument with an integrated channel bandwidth function may be used to automate the test process.
- 2) Set center of frequency = operating frequency.
- 3) Connect the EUT to the RF input of the spectrum analyzer via a low loss RF cable
- 4) Set the RBW = 1MHz, VBW = 3MHz, Detector = RMS, Sweep = Auto.
- 5) Set the SPAN to 40MHz/80MHz for 20MHz/40MHz emission bandwidth mode.
- 6) Measure the highest amplitude appearing on spectral display and mark the value.
- 7) Repeat the above procedures until all frequency measured was complete.



Test Setup Block Diagram

### 7.3 Test Data and Results

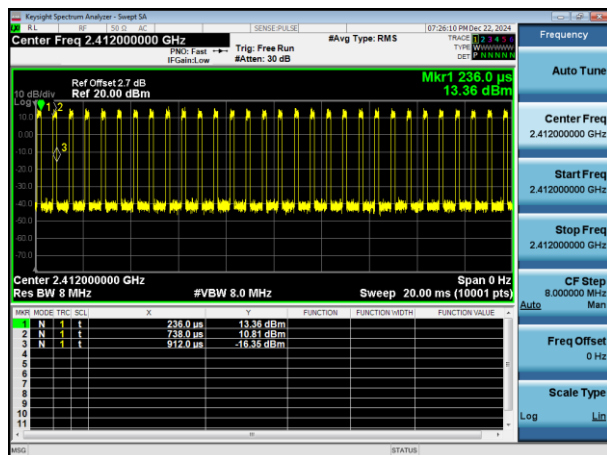


## Duty Cycle

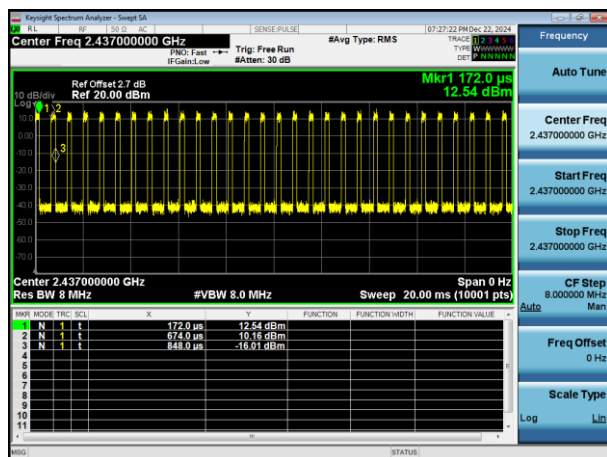
| Test Mode     | Antenna | Test Channel<br>MHz | Duty Cycle<br>(%) | Correction Factor<br>(dBm) | 1/T (kHz) |
|---------------|---------|---------------------|-------------------|----------------------------|-----------|
| 802.11b       | ANT 1   | 2412                | 64.94             | 1.87                       | 1.08      |
|               |         | 2437                | 64.89             | 1.88                       | 1.08      |
|               |         | 2462                | 64.8              | 1.88                       | 1.08      |
|               | ANT 2   | 2412                | 64.89             | 1.88                       | 1.08      |
|               |         | 2437                | 64.89             | 1.88                       | 1.08      |
|               |         | 2462                | 64.89             | 1.88                       | 1.08      |
| 802.11g       | ANT 1   | 2412                | 25.74             | 5.89                       | 5.75      |
|               |         | 2437                | 25.74             | 5.89                       | 5.75      |
|               |         | 2462                | 25.82             | 5.88                       | 5.75      |
|               | ANT 2   | 2412                | 25.82             | 5.88                       | 5.75      |
|               |         | 2437                | 25.82             | 5.88                       | 5.75      |
|               |         | 2462                | 25.82             | 5.88                       | 5.75      |
| 802.11n(HT20) | ANT 1   | 2412                | 24.47             | 6.11                       | 6.17      |
|               |         | 2437                | 24.47             | 6.11                       | 6.17      |
|               |         | 2462                | 24.47             | 6.11                       | 6.17      |
|               | ANT 2   | 2412                | 24.47             | 6.11                       | 6.17      |
|               |         | 2437                | 24.47             | 6.11                       | 6.17      |
|               |         | 2462                | 24.47             | 6.11                       | 6.17      |
| 802.11n(HT40) | ANT 1   | 2422                | 16.39             | 7.85                       | 10.2      |
|               |         | 2437                | 16.39             | 7.85                       | 10.2      |
|               |         | 2452                | 16.39             | 7.85                       | 10.2      |
|               | ANT 2   | 2422                | 16.39             | 7.85                       | 10.2      |
|               |         | 2437                | 16.39             | 7.85                       | 10.2      |
|               |         | 2452                | 16.05             | 7.95                       | 10.42     |

802.11g

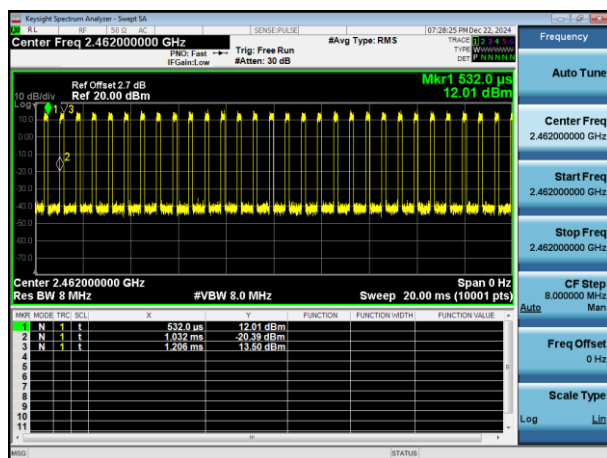
2412MHz



2437MHz

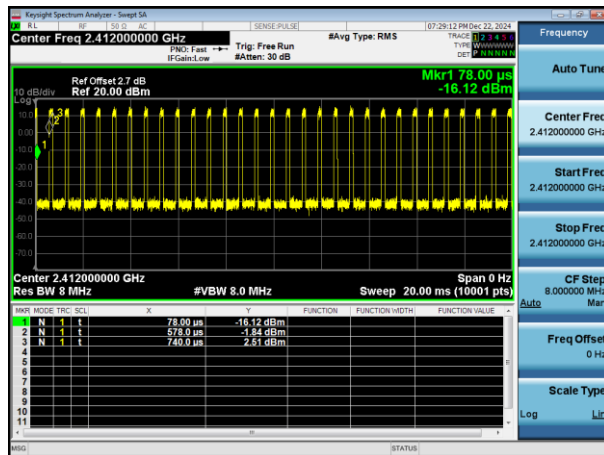


2462MHz



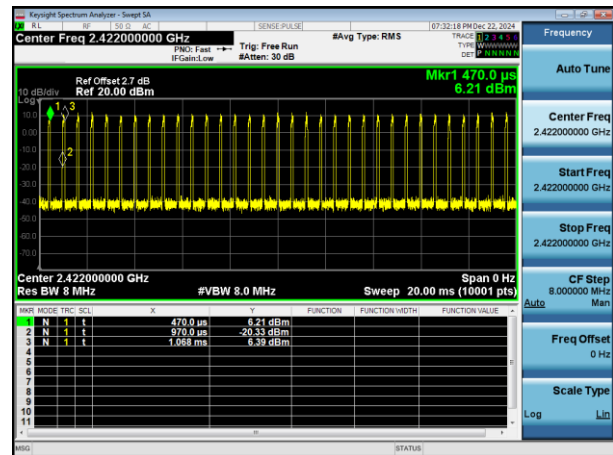
802.11n(HT20)

2412MHz

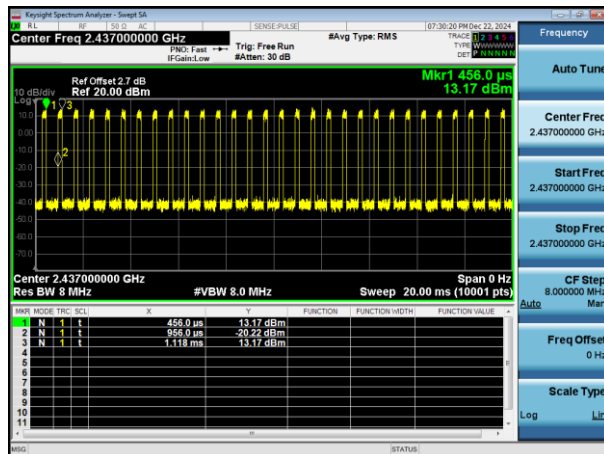


802.11n(HT40)

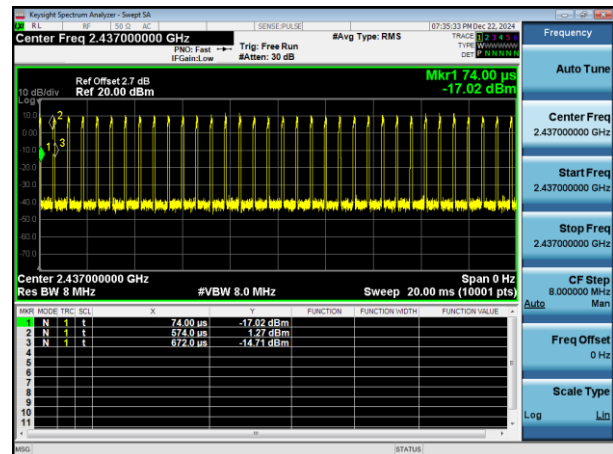
2422MHz



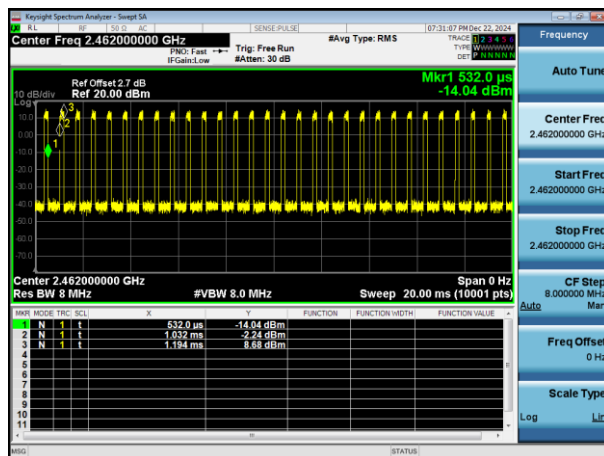
2437MHz



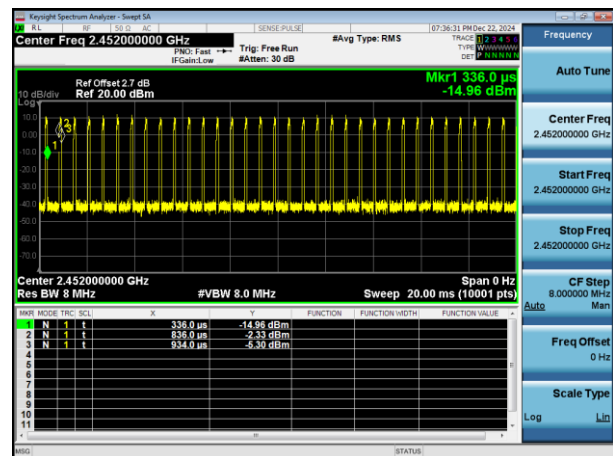
2437MHz



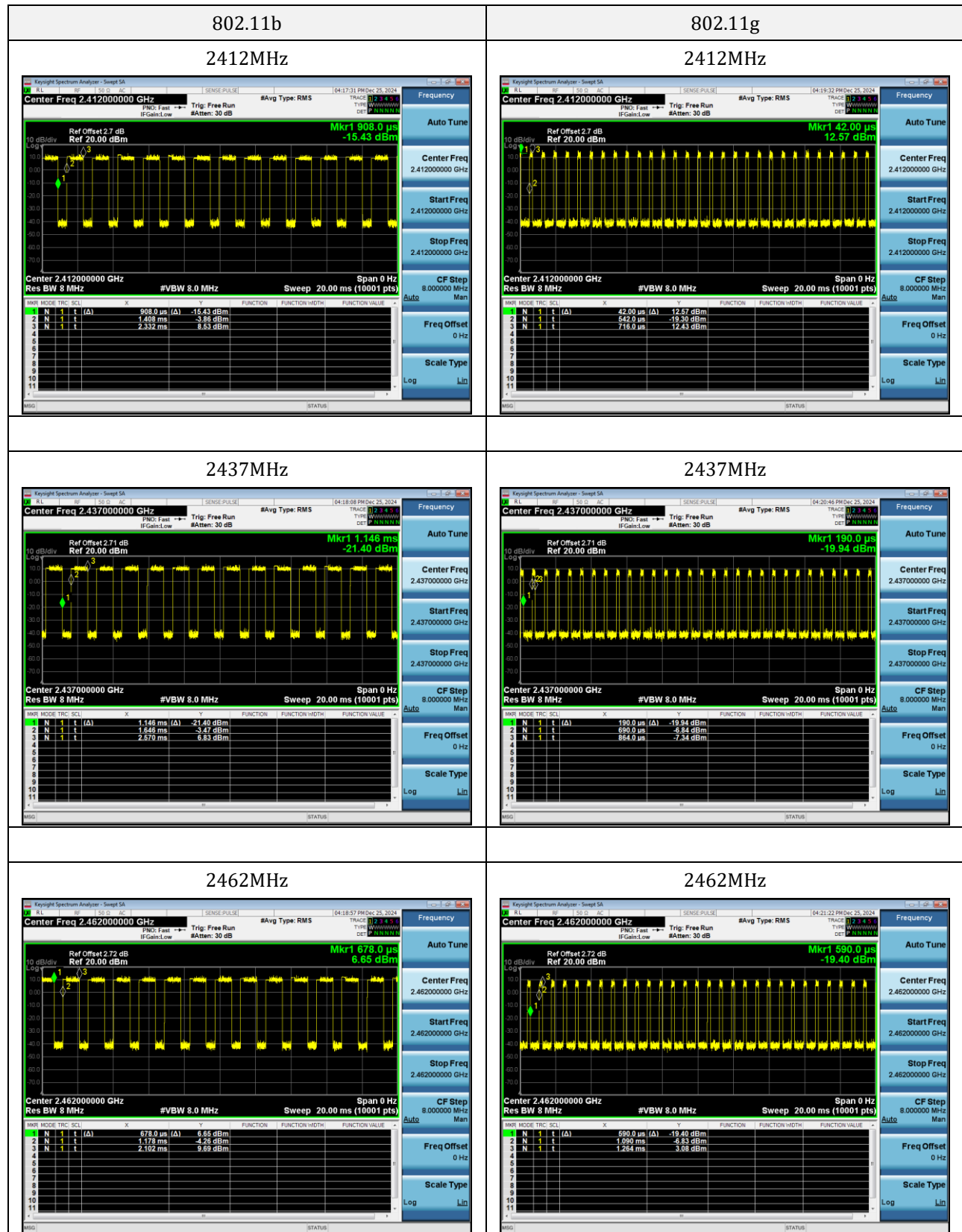
2462MHz



2452MHz

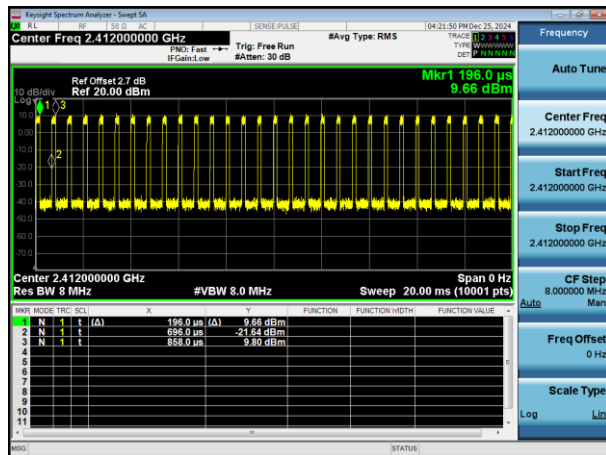


ANT2:



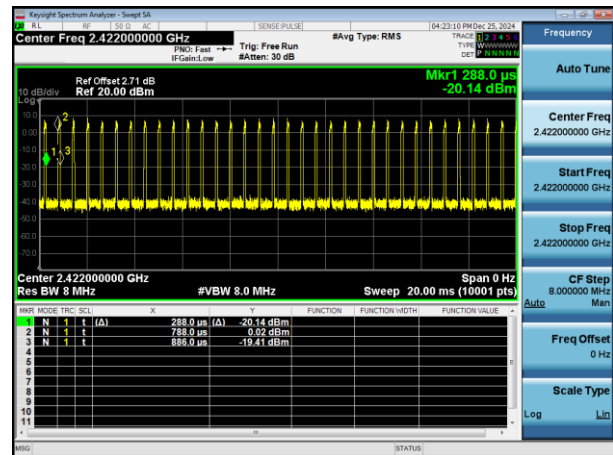
802.11n(HT20)

2412MHz

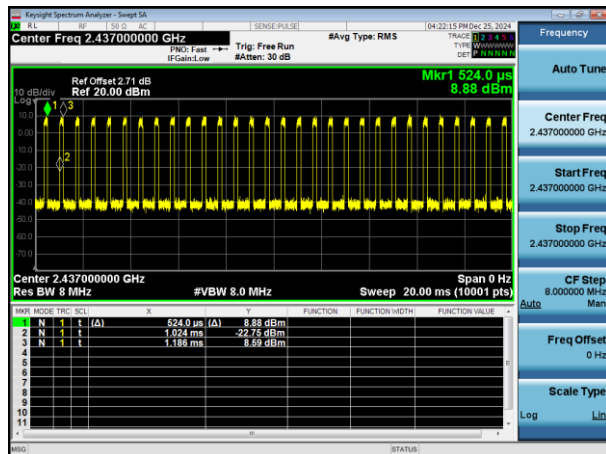


802.11n(HT40)

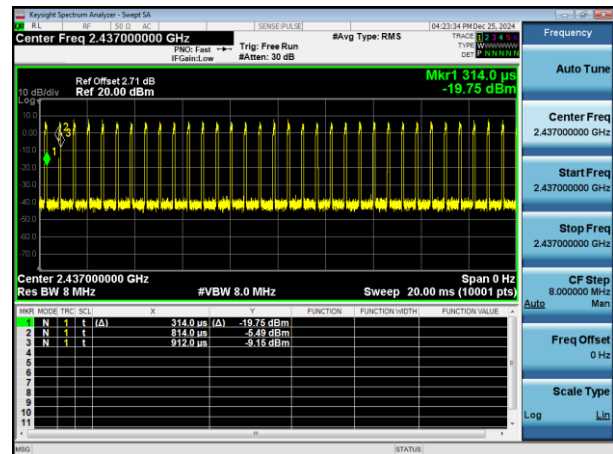
2422MHz



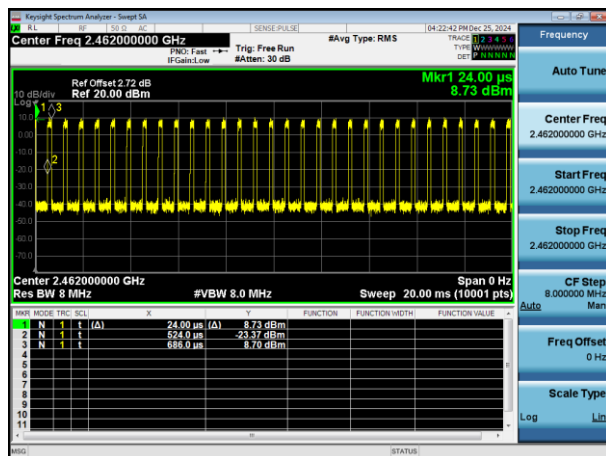
2437MHz



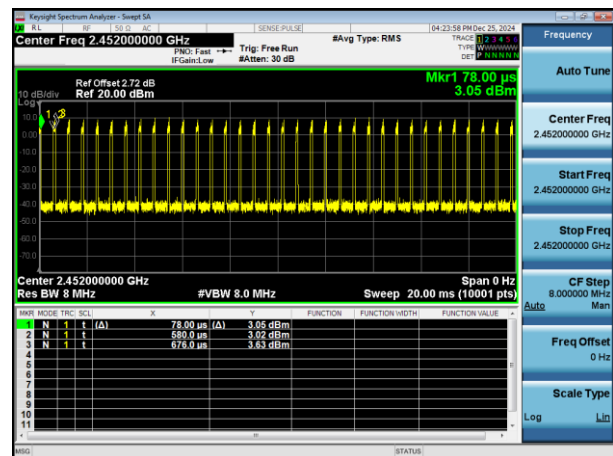
2437MHz



2462MHz



2452MHz



SISO:

| Test Mode     | Antenna | Test Channel (MHz) | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Test Result |
|---------------|---------|--------------------|-----------------------|------------------|-------------------|-------------|-------------|
| 802.11b       | ANT 1   | 2412               | 5.16                  | 1.87             | 7.03              | 30          | Pass        |
|               |         | 2437               | 4.15                  | 1.88             | 6.03              | 30          | Pass        |
|               |         | 2462               | 5.37                  | 1.88             | 7.25              | 30          | Pass        |
|               | ANT 2   | 2412               | 4.42                  | 1.88             | 6.3               | 30          | Pass        |
|               |         | 2437               | 5.38                  | 1.88             | 7.26              | 30          | Pass        |
|               |         | 2462               | 4.6                   | 1.88             | 6.48              | 30          | Pass        |
| 802.11g       | ANT 1   | 2412               | -0.18                 | 5.89             | 5.71              | 30          | Pass        |
|               |         | 2437               | -0.36                 | 5.89             | 5.53              | 30          | Pass        |
|               |         | 2462               | -0.06                 | 5.88             | 5.82              | 30          | Pass        |
|               | ANT 2   | 2412               | -1.08                 | 5.88             | 4.8               | 30          | Pass        |
|               |         | 2437               | -1.79                 | 5.88             | 4.09              | 30          | Pass        |
|               |         | 2462               | -1.57                 | 5.88             | 4.31              | 30          | Pass        |
| 802.11n(HT20) | ANT 1   | 2412               | -0.2                  | 6.11             | 5.91              | 30          | Pass        |
|               |         | 2437               | -0.77                 | 6.11             | 5.34              | 30          | Pass        |
|               |         | 2462               | -0.77                 | 6.11             | 5.34              | 30          | Pass        |
|               | ANT 2   | 2412               | -1.31                 | 6.11             | 4.8               | 30          | Pass        |
|               |         | 2437               | -2.3                  | 6.11             | 3.81              | 30          | Pass        |
|               |         | 2462               | -2.51                 | 6.11             | 3.6               | 30          | Pass        |
| 802.11n(HT40) | ANT 1   | 2422               | -1.77                 | 7.85             | 6.08              | 30          | Pass        |
|               |         | 2437               | -2.27                 | 7.85             | 5.58              | 30          | Pass        |
|               |         | 2452               | -1.98                 | 7.85             | 5.87              | 30          | Pass        |
|               | ANT 2   | 2422               | -2.65                 | 7.85             | 5.2               | 30          | Pass        |
|               |         | 2437               | -3.19                 | 7.85             | 4.66              | 30          | Pass        |
|               |         | 2452               | -3.48                 | 7.95             | 4.47              | 30          | Pass        |

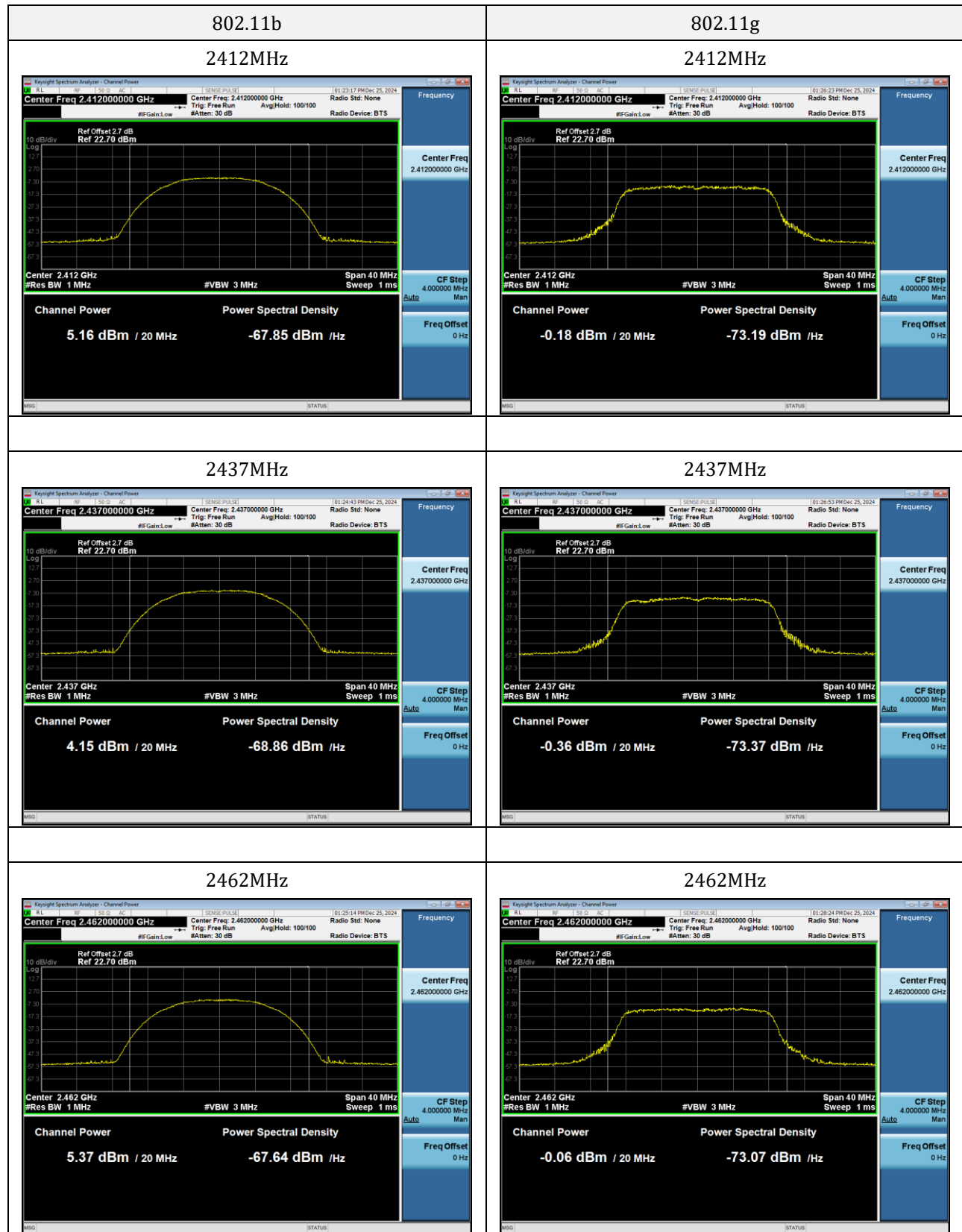
Note: Total Power = Conducted Power + Duty Factor

MIMO mode:

| Test Mode     | Antenna | Test Channel (MHz) | Power (dBm) | Limit (dBm) | Test Result |
|---------------|---------|--------------------|-------------|-------------|-------------|
| 802.11n(HT20) | ANT 1   | 2412               | 3.89        | 30          | Pass        |
|               |         | 2437               | 2.51        | 30          | Pass        |
|               |         | 2462               | 4.34        | 30          | Pass        |
|               | ANT 2   | 2412               | -0.18       | 30          | Pass        |
|               |         | 2437               | -1.24       | 30          | Pass        |
|               |         | 2462               | -0.44       | 30          | Pass        |
|               | Sum     | 2412               | 5.33        | 30          | Pass        |
|               |         | 2437               | 4.04        | 30          | Pass        |
|               |         | 2462               | 5.59        | 30          | Pass        |
| 802.11n(HT40) | ANT 1   | 2422               | 2.09        | 30          | Pass        |
|               |         | 2437               | 1.57        | 30          | Pass        |
|               |         | 2452               | 1.63        | 30          | Pass        |
|               | ANT 2   | 2422               | -1.99       | 30          | Pass        |
|               |         | 2437               | -2.51       | 30          | Pass        |
|               |         | 2452               | -2.85       | 30          | Pass        |
|               | Sum     | 2422               | 3.52        | 30          | Pass        |
|               |         | 2437               | 3           | 30          | Pass        |
|               |         | 2452               | 2.95        | 30          | Pass        |

Note: Sum Power (mW) = Ant.1 Power (mW) + Ant.2 Power (mW)

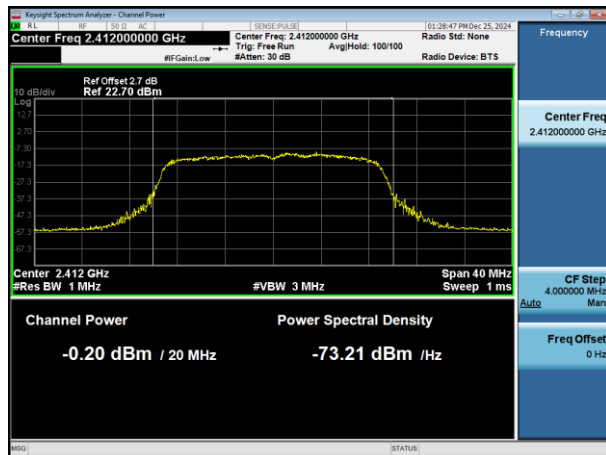
ANT1:





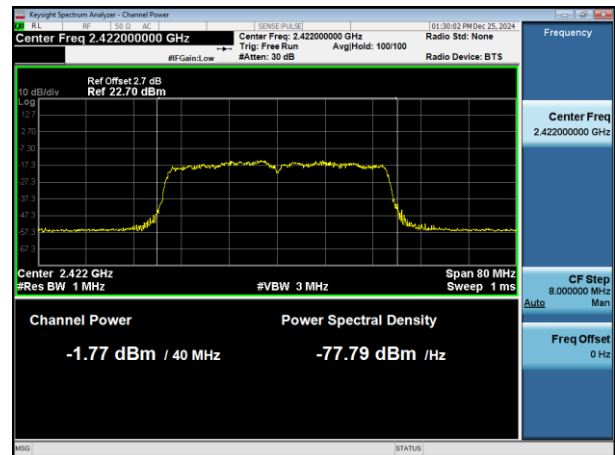
802.11n(HT20)

2412MHz

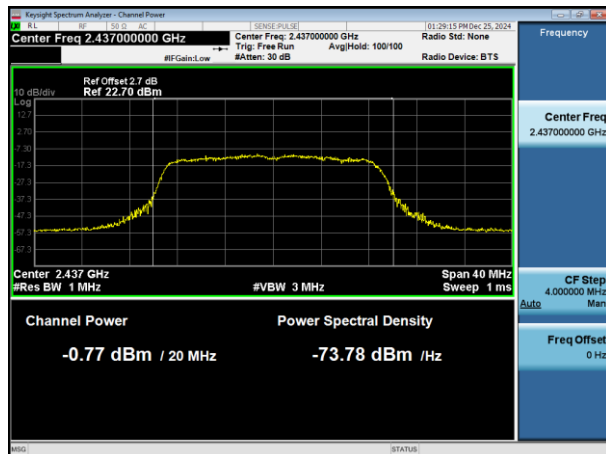


802.11n(HT40)

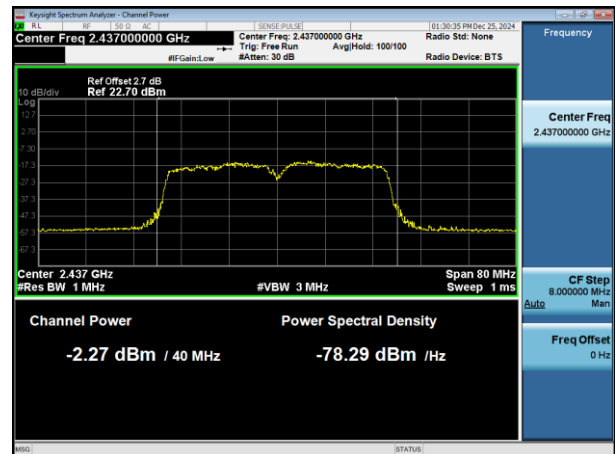
2422MHz



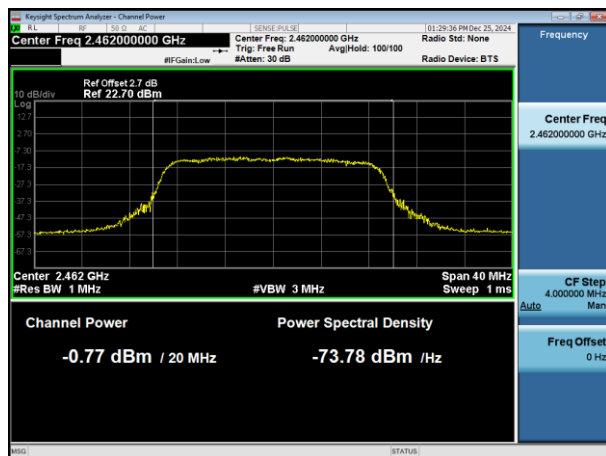
2437MHz



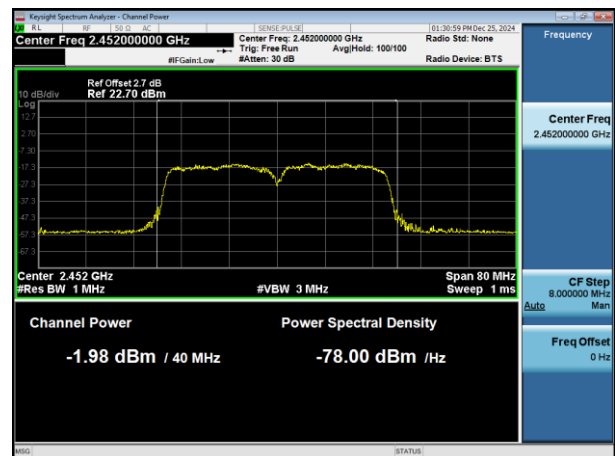
2437MHz



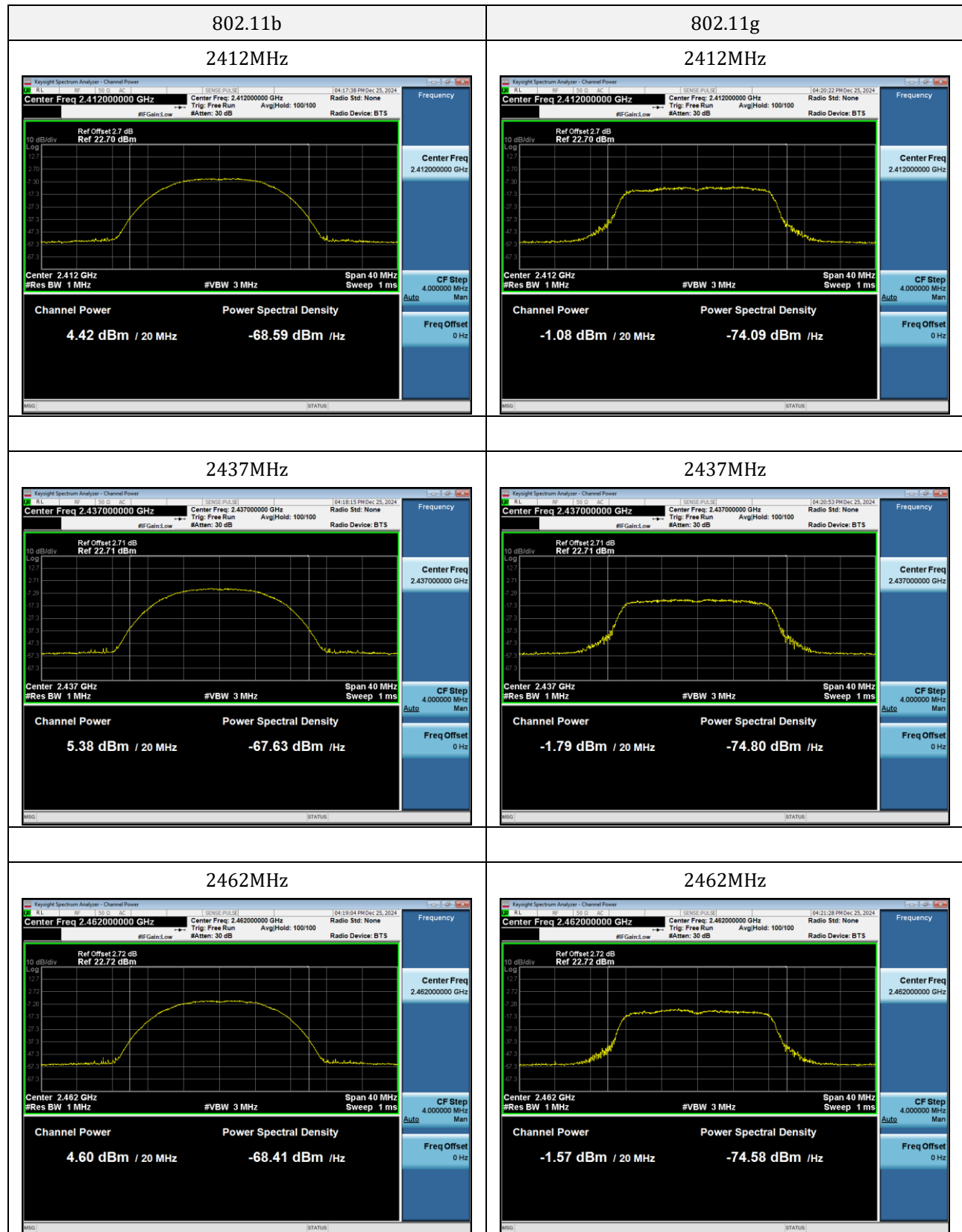
2462MHz



2452MHz

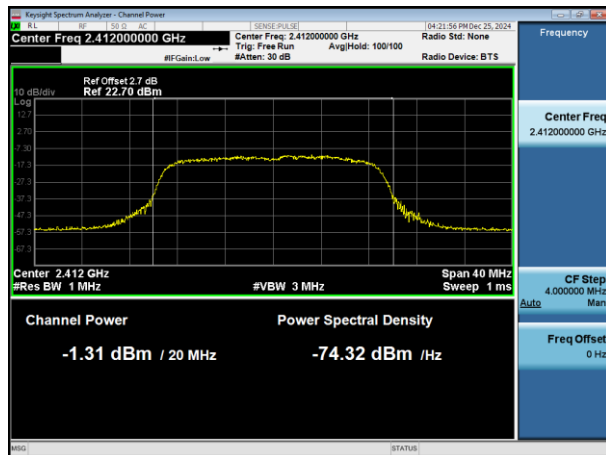


ANT2:



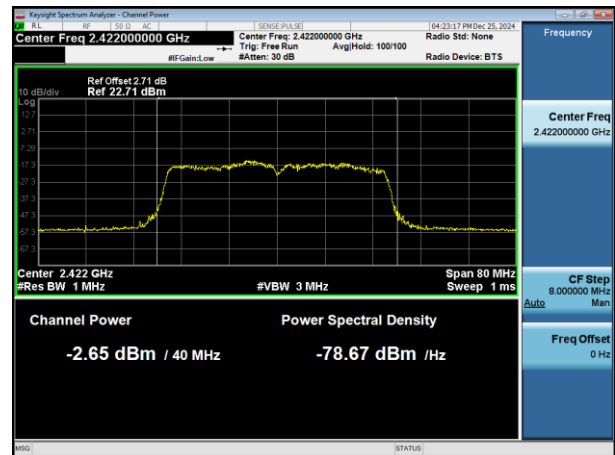
802.11n(HT20)

2412MHz

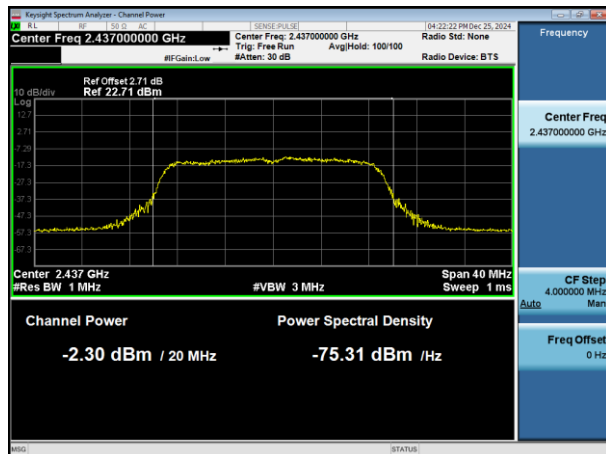


802.11n(HT40)

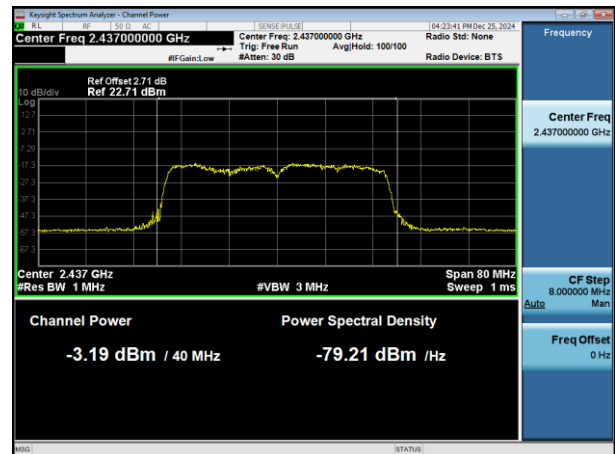
2422MHz



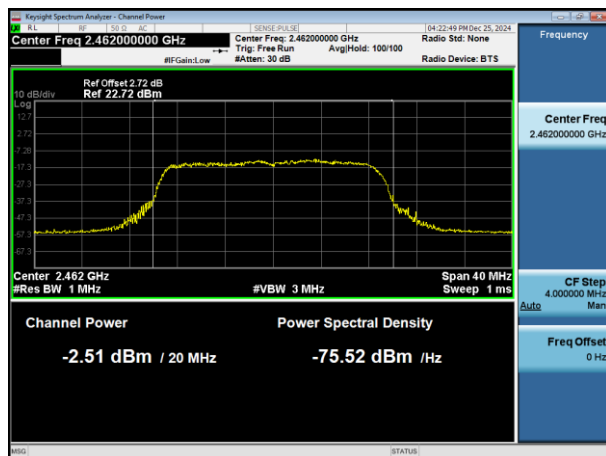
2437MHz



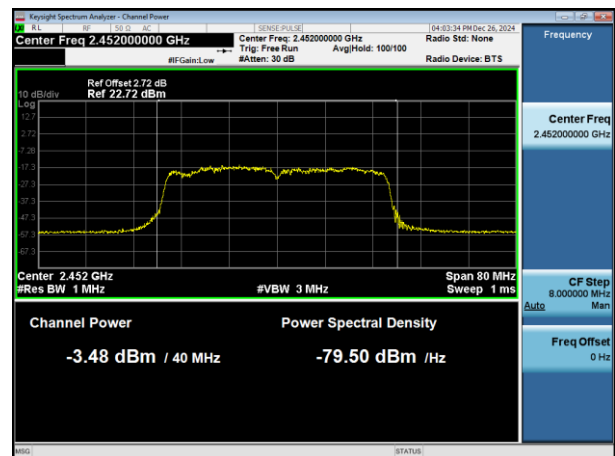
2437MHz



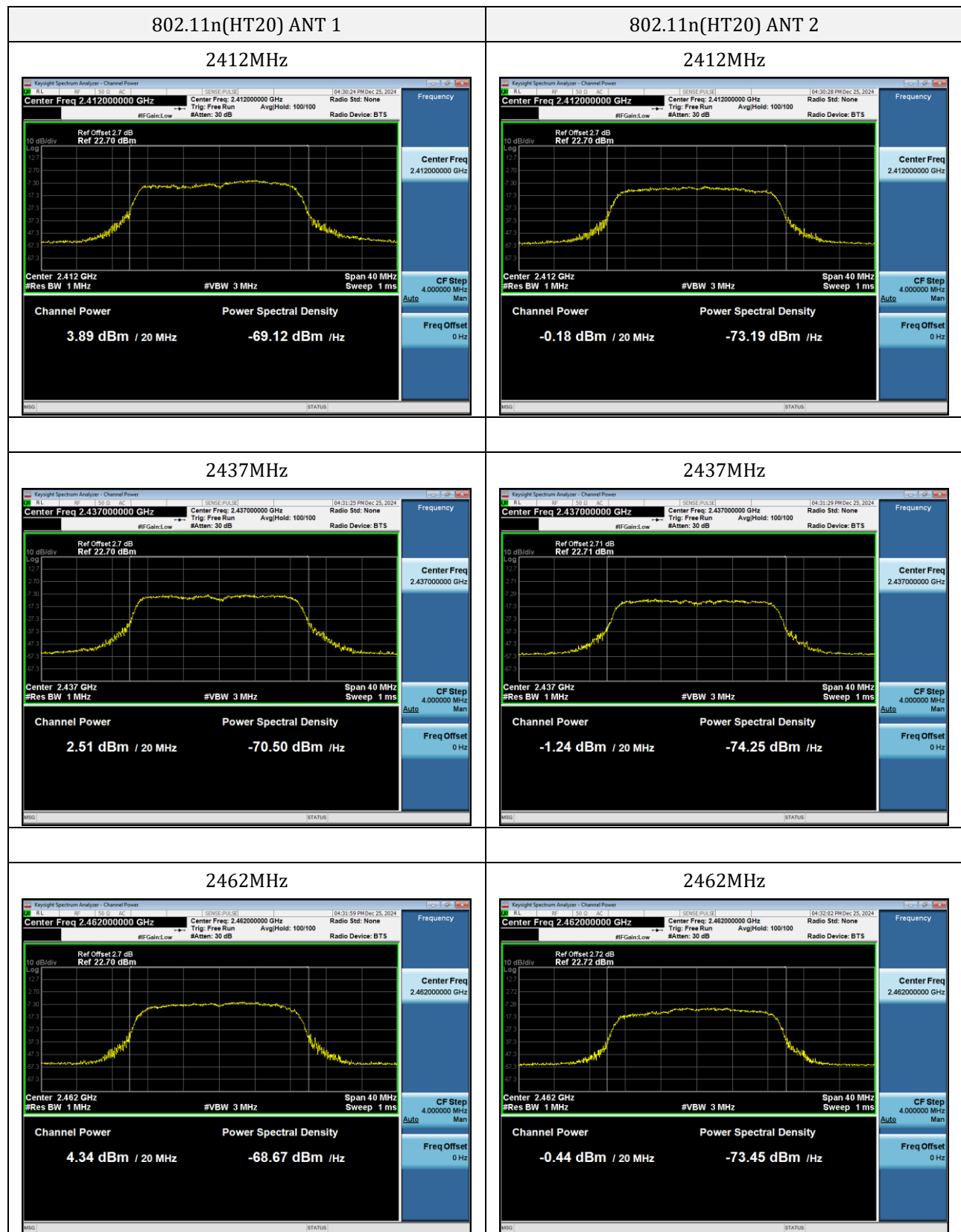
2462MHz



2452MHz

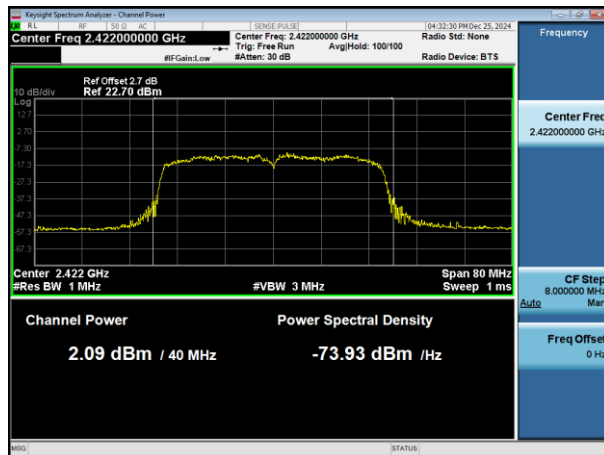


Sum:



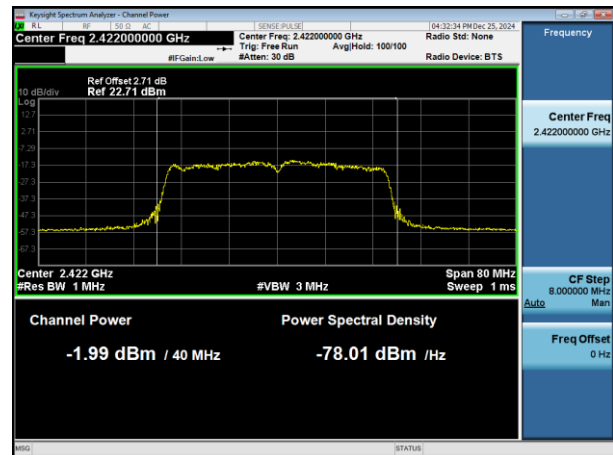
802.11n(HT40) ANT 1

2422MHz

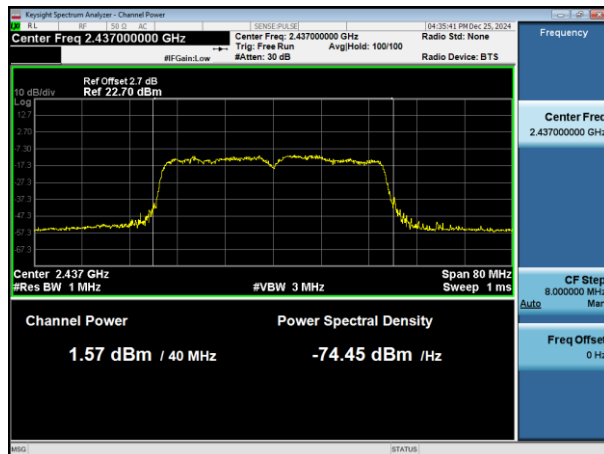


802.11n(HT40) ANT 2

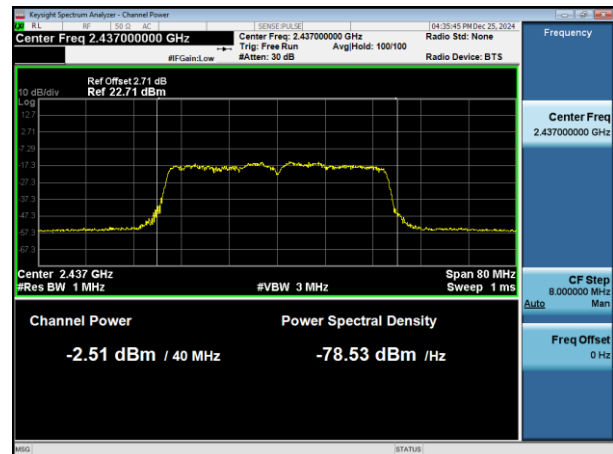
2422MHz



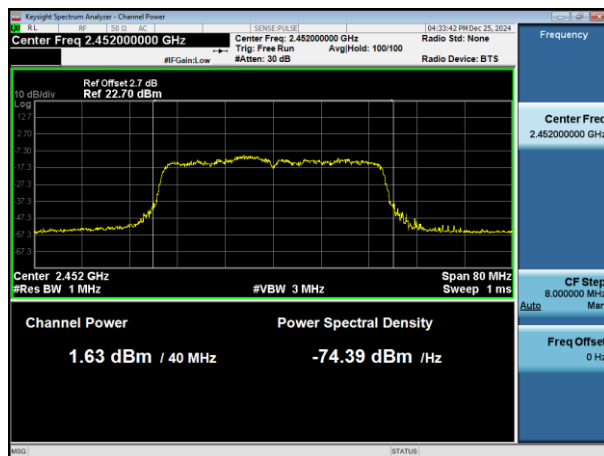
2437MHz



2437MHz



2452MHz



2452MHz

